



Bridge #03670(Routine)
CR12E Halijan Rd over I-40 Log 186.94
Location: 1.40 MI E LONOKE CO.LIN
Team Lead: Keith Harris Inspection Date: April 19, 2022



Latitude:34.80999, Longitude:-91.67514

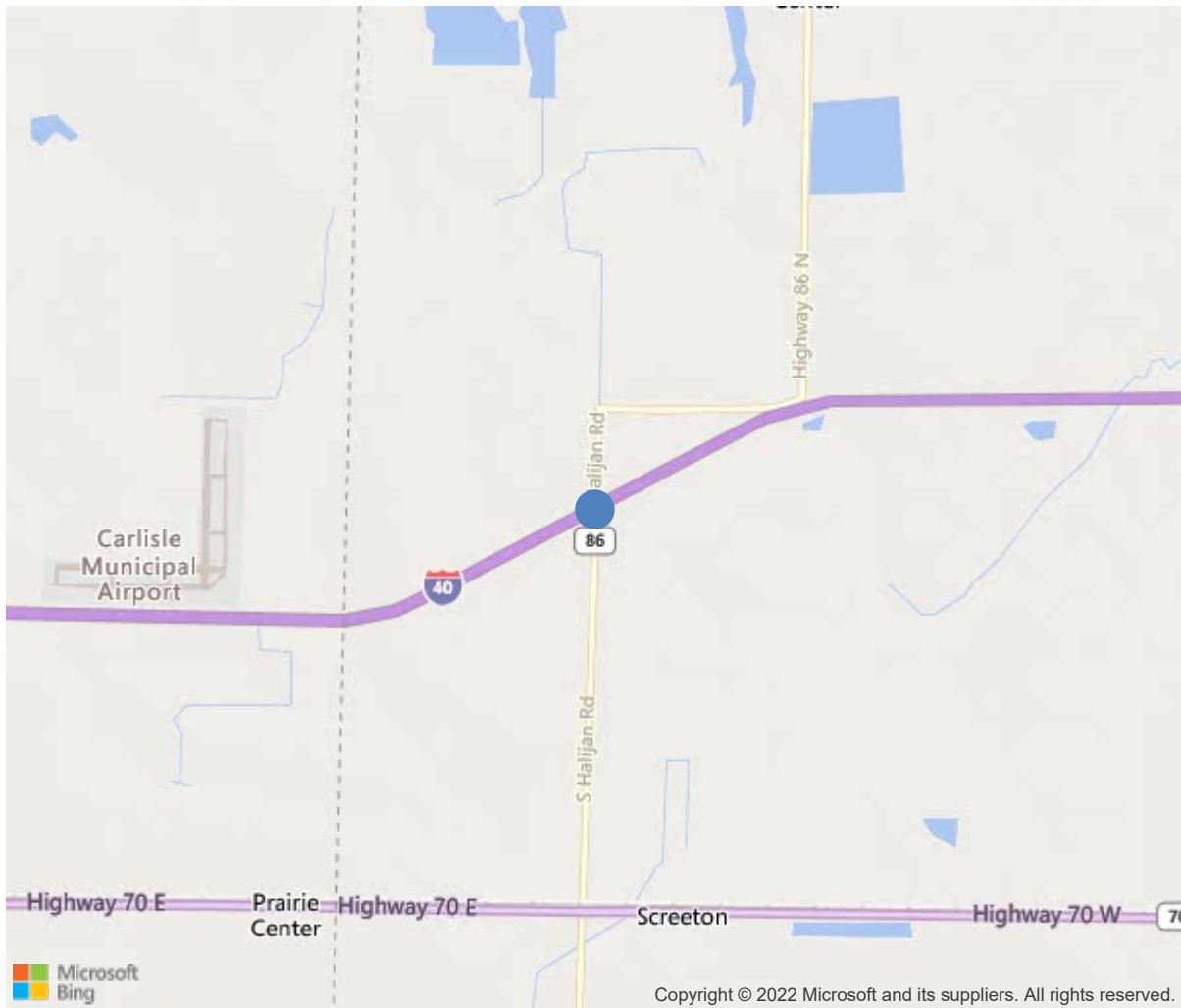
Route:12 Section:00 Log:5.209

Arnold Road ID:59xSHALIJANRDx0xA, Arnold Log mile:0.026

District 06, Prairie County

Owner: 1-State Highway Agency

1.40 MI E LONOKE CO.LIN



34.80999, -91.67514

Inspection Direction : S to N



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03670
(5) Inventory Route	12
(2) Highway Agency District	06
(3) County Code	117-Prairie County, Arkansas
(4) Place Code	0
(6) Features Intersected	I-40 Log 186.94
(7) Facility Carried	CR12E Halijan Rd
(9) Location	1.40 MI E LONOKE CO.LIN
(11) Mile Point	5.209 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.80999
(17) Longitude	-91.67514
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3-Steel
Type	2-Stringer/Multi-beam or girder
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	4
(46) No. of Approach Spans	0
(107) Deck Structure Type	1-Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1965
(106) Year Reconstructed	0
(42) Type of Service	11
On	1-Highway
Under	1-Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	230
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	76 ft
(49) Structure Length	243 ft
(50) Curb or Sidewalk Width	
Left	1.1 ft
Right	1.1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	28.6 ft
(32) Approach Roadway Width (W/Shoulders)	25.9 ft
(33) Bridge Median	0-No median
(34) Skew	30 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	24 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16 ft
Ref:	
(55) Min Lat Underclear RT	9.5 ft
Ref:	
(56) Min Lat Underclear LT	7.5 ft
NAVIGATION DATA	
(38) Navigation Control	N-Not applicable, no waterway.
(111) Pier Protection	1-Navigation protection not requ
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	0
(26) Functional Class	7-Rural Major Collector
(100) Defense Highway	0-The inventory route is not a S
(101) Parallel Structure	N-No parallel structure exists.
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0-N/A
(110) Designated National Network	0-The inventory route is not part of
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2-M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	48
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	4
Rating	29
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	3
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	N-Bridge not over waterway.
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	163
(115) Year of Future ADT	2007

INSPECTIONS *			
(90) Inspection Date	04/2022		
(91) Frequency	24 Months		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6388	4994	1394	0	0
1080	Delamination/Spall/Patched Area	SF	65	0	65	0	0
1130	Cracking (RC and Other)	SF	708	0	708	0	0
1190	Abrasion/Wear (PSC/RC)	SF	621	0	621	0	0
(12)	Span 3 has patched areas and small spalls. See photo. The deck has scattered transverse cracks, some have been sealed by state forces.						
107	Steel Open Girder/Beam	LF	1200	520	680	0	0
1000	Corrosion	LF	680	0	680	0	0
515	Steel Protective Coating	SF	9780	0	4080	4500	1200
3440	Effectiveness (Steel Protective Coatings)	SF	9780	0	4080	4500	1200
(107)	HBM repainted the beams 5-31-2007! Both of the outside beams are chalky, there are scattered areas of peeling paint on all beams and the bottom flanges and lower webs of all span shave freckled rust and some exposed metal with active rust.						
205	Reinforced Concrete Column	EA	6	6	0	0	0
215	Reinforced Concrete Abutment	LF	78	29	1	48	0
1080	Delamination/Spall/Patched Area	LF	49	0	1	48	0
(215)	The top of back walls at both abutments are spalled. Bent 5 abutment has spall with exposed rebar.						
234	Reinforced Concrete Pier Cap	LF	90	89	1	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
(234)	Bent 4 cap back face has spall.						
303	Assembly Joint with Seal	LF	143	143	0	0	0
311	Movable Bearing	EA	20	0	20	0	0
1000	Corrosion	EA	20	0	20	0	0
(311)	All bearings have minor corrosion						
313	Fixed Bearing	EA	20	0	20	0	0
1000	Corrosion	EA	20	0	20	0	0

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(313)	All bearings have minor corrosion						
330	Metal Bridge Railing	LF	485	485	0	0	0
331	Reinforced Concrete Bridge Railing	LF	485	454	31	0	0
1130	Cracking (RC and Other)	LF	31	0	31	0	0
(331)	Concrete bridge railing has various scattered cracks.						



Elevation



Deck overview



Soffit view



Span 2 typical paint condition



Bent 5 top of backwall is spalled



Span 3 abrasion/wear in left lane

Maintenance Needs

Date Reported: 04/12/2016
Priority: D- Routine
Type of Work: None
Status: Repair Documented
Inspection Direction S to N
Component:

Deficiency Description

Broken pieces of concrete under the bridge at the south abutment.

Remarks



Broken pieces of concrete at bent 5, south abutment.



Most of the broken concrete has been removed

Date Reported: 04/16/2018
Priority: C - Important
Type of Work: Repair
Status: Monitor
Inspection Direction S to N
Component: Substructure

Deficiency Description

Spalls on top of back wall at bents 1 & 5 abutments.

Remarks



Bent 5: top of back wall is spalled



Bent 1 top of back wall has spalled



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Bent 5 spalls on top on back wall.

Date Reported: 04/16/2018
Priority: C - Important
Type of Work: Repair
Status: Repair Documented
Inspection Direction S to N
Component: Approach

Deficiency Description

North abutment right approach gutter void.

Remarks



North abutment right approach gutter void.



North abutment right approach gutter void.



State forces have poured concrete in void



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Date Reported: 04/16/2018
Priority: C - Important
Type of Work: Repair
Status: Monitor
Inspection Direction S to N
Component: Deck

Deficiency Description

Deck span 3 spalls.

Remarks



Span 3: deck spalls



Span 3 spalls in left lane

Date Reported: 04/19/2022
Priority: C - Important
Type of Work: Clean
Status: Open
Inspection Direction S to N
Component: Approach

Deficiency Description

North side of bridge, erosion has caused a pile of dirt to accumulate on interstate shoulder.

Remarks



North side of bridge, erosion has caused a pile of dirt to accumulate on interstate shoulder.



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Inspection Comments

Job #6716, Drawing #12033 for layout. Form IIIB attached

Logged Northbound.